

**Technical Data Sheet**

Bridge Identification:	1771110000000B03
Facility Carried:	I-94
Feature Intersected:	Black River
Location:	Port Huron Township
County:	St. Clair
Region:	Metro
Year Built:	1950
Year Reconstructed:	1975, 1982
Bridge Type:	Two-Girder System
No. of Spans:	10
Deck Area:	24,450 S.F.
Paint System:	Red Lead (Joints Type 4)
Paint Area:	112,000 S.F.



Plan View Looking West (1)

## Fracture Critical Members

1. Pin and Hanger Assemblies
2. Tension Areas of Main Girders

## Fatigue Sensitive Details

1. Tack Welds
2. Floorbeam-to-Girder Connections
3. Lateral Bracing-to-Girder Connections

### ***General Bridge Description***

Bridge B03 of 77111 is a ten-span steel beam and plate girder bridge carrying I-94 over the Black River in the Port Huron Township, St. Clair County. The three plate girder spans measure 100'-0", 146'-0", and 100'-0" from west to east. There are five approach spans at the west end of the bridge and two approach spans on the east end of the bridge, each 60'-0" long. The overall length of the bridge is 766'-0". The out-to-out width of the deck is 63'-10", providing for two 12'-0" travel lanes and a 4'-0" shoulder in each direction. The bridge is supported by reinforced concrete abutments and solid shaft piers.

Span 7 contains a 86'-0" long suspended span which is supported by pin and hanger assemblies at the end of the plate girders cantilevered from Spans 6 and 8.

The bridge substructure was built in 1950. The superstructure was painted in 1975. The bridge deck was overlaid in 1982.



Elevation (2)

### ***Inspection Checklists***

For additional information and detailed inspection procedures, refer to the Inspection and Maintenance Program section of this manual.

#### ***Fracture Critical Members/Fatigue Sensitive Details***

- ! Pin and hanger assemblies.** (Photo 3)
- ! Tension areas of main girders.** See Figure 1 in the Inspection and Maintenance Program section of this manual for tension areas of main girders.
- ! Floorbeam-to-girder connections.**
- ! Lateral bracing-to-girder connections.**
- ! Tack welds on gusset plates in various locations.**



Pin and Hanger Assembly (3)

#### ***Other***

- ! Expansion joints.** Monitor condition of these joints for leakage.
- ! Bearings.** Inspect the bearing assemblies at the piers for signs of unusual wear or cracks. Inspect to ensure they are free to move as intended.

***Maintenance Recommendations******Regularly Scheduled Maintenance Items***

<b>Recommendation</b>	<b>Schedule</b>
Clean bridge drainage system components (deck drains and downspouts).	6 to 12 months
Flush bridge deck joints and check for leaks.	12 months
Powerwash bridge superstructure.	12 months
Powerwash bearings and pin and hanger assemblies.	12 months